



Inductive proximity sensors XS, inductive sensor XS8 40x40x117, PBT, Sn40 mm, 12...48 VDC, terminals

XS8C4A4PCG13

Main

iviaiii	
Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS8
Sensor design	Form 40 x 40 x 117
Size	117 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	40 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Screw-clamp terminals, 4 x 1.5 mm²
[Us] rated supply voltage	1248 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

Safety level	SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061
Safety reliability data	MTTFd = 1546 years

PFHd = 7.45-8 1/h

SFF = 92 %

DC = 75 % with appropriate safety controller

Detection face	5 positions turret head
Front material	PBT
Operating zone	032 mm
Differential travel	315% of Sr
Repeat accuracy	<= 3% of Sr
Cable entry number	1 tapped entry for Pg 13.5 cable gland
Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Supply voltage limits	1058 V DC
Switching frequency	<= 200 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	015 mA no-load
Maximum delay first up	7.5 ms
Maximum delay response	1.4 ms
Maximum delay recovery	2.5 ms
Marking	CE
Height	40 mm
Length	40 mm
Width	117 mm
Net weight	0.244 kg
Environment	
Product certifications	E2 TÜV UL
	CCC
	CSA
Ambient air temperature for operation	-2570 °C
operation Ambient air temperature for	-2570 °C
Ambient air temperature for storage	-2570 °C -4085 °C
Ambient air temperature for storage Vibration resistance	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Ambient air temperature for storage Vibration resistance Shock resistance	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Ambient air temperature for storage Vibration resistance Shock resistance Packing Units	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27
Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 PCE
Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1 Number of Units in Package 1	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 PCE 1
Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 PCE 1 4.5 cm
Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 PCE 1 4.5 cm
Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length	-2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 PCE 1 4.5 cm 4.5 cm

15.0 cm

30.0 cm

40.0 cm

7.846 kg

Package 2 Height

Package 2 Width

Package 2 Length

Package 2 Weight

Unit Type of Package 3	P06
Number of Units in Package 3	448
Package 3 Height	80.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	129.572 kg
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

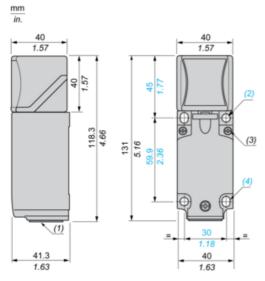
Contractual warranty

Warranty 18 months

XS8C4A4PCG13

Dimensions Drawings

Dimensions



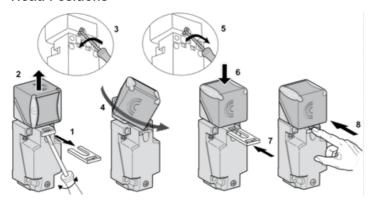
- (1): Pg 13.5 cable gland.
- (2): 2 holes Ø 5,45 mm / Ø 0.21 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in.
- (3): 3 screws M3,5. Tightening torque: < 1,2 Nm / < 10.6 lb-in.
- (4) : 2 alongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in".

XS8C4A4PCG13

Mounting and Clearance

Mounting

Head Positions



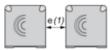
Life Is On Schneider

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Mounting and Clearance

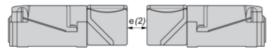
Setting-up Precautions

Side by Side



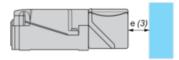
e (1) ≥ 160

Face to Face



e (2) ≥ 320

Facing a Metal Object



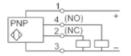
e (3) ≥ 120

XS8C4A4PCG13

Connections and Schema

Wiring Schemes

4-Wire DC

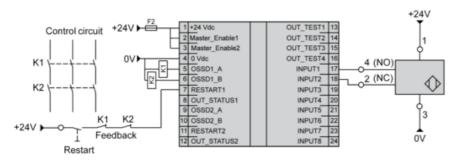


XS8C4A4PCG13

Connections and Schema

SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC



SFF: (Safe Failure Fraction): 92,68 % **DC**: (Diagnosis Coverage): 75,8 %

Recommended replacement(s)